	Application No.	Applicant(s)	
Notice of Allowability	10/074,958	BELNIAK ET AL.	
	Examiner	Art Unit	
	Joseph P. Hirl	2129	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due course	e. THIS e initiative
1. \boxtimes This communication is responsive to <u>November 27, 2007</u> .			
2. X The allowed claim(s) is/are 11-19 and 21-23.			
 Acknowledgment is made of a claim for foreign priority u All Some* None Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Moreover the priority documents have Moreover the priority documents have Moreover the priority documents have<td>e been received. e been received in Applicat</td><td>ion No</td><td>om the</td>	e been received. e been received in Applicat	ion No	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to for this communication to form.	le a reply complying with the requirem	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	nitted. Note the attached Ex res reason(s) why the oath	(AMINER'S AMENDMENT or NOTICE or declaration is deficient.	E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_•		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 (the drawings in the front (not the back) CFR 1.121(d).	of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MA FOR THE DEPOSIT OF E	TERIAL must be submitted. Note the IOLOGICAL MATERIAL.	ie .
		•	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🗀 Notice of	Informal Patent Application	
 Notice of References Cited (FTO-692) Notice of Draftperson's Patent Drawing Review (PTO-948) 	· <u></u>	Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper N	o./Mail Date 's Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		's Statement of Reasons for Allowance SEPH P HIPL PRIMARY EXAMINER TECHNOLOGY CENTER 2100	

Application/Control Number:

10/074,958 Art Unit: 2129

Reasons for Allowance

- 1. The result that is a practical application is found in ¶0008 and ¶0043.
- 2. Claims 11-19 and 21-23 are considered allowable since when reading the claims in light of the specification (MPEP § 211.01) or In re Sneed, 710 F.2d 1544, 1548, 218 USPQ 385, 388 (Fed. Cir. 1983), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independent claim 1, including "the ADTree database structure provides dynamic pruning of less frequently used branches when system memory is low" (supported at e. g., ¶0057), whereby a database is processed to eliminate missing values in records by using an ADTree database structure with dynamic pruning of less frequently used branches when memory is low and using a resulting high-scoring network to compute a decision for a new case.

The closest prior art (Freund et al., "The alternating decision tree learning algorithm" sets forth the methodology") sets forth the concept of the ADTree data structure which is a generalization of decision trees, voted decision trees and voted decision stumps that is based on boosting. However, Freund does not teach dynamic pruning of the ADTree database structure conditioned on less frequently used branches when system memory is low. While Freund references Margineautu et al. [11] regarding "Pruning adaptive boosting", Margineautu's teachings do not address dynamic pruning of less frequently used branches when system memory is low.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence Information

4. Any inquiry concerning this information or related to the subject disclosure should be directed to the Primary Examiner, Joseph P. Hirl, whose telephone number is (571) 272-3685. The Examiner can be reached on Monday – Thursday from 5:30 a.m. to 4:00 p.m.

As detailed in MPEP 502.03, communications via Internet e-mail are at the discretion of the applicant. Without a written authorization by applicant recorded in the applicant's file, the USPTO will not respond via e-mail to any Internet correspondence which contains information subject to the confidentiality requirement as set forth in 35 U.S.C. 122. A paper copy of such correspondence will be placed in the appropriate patent application. The following is an example authorization which may be used by the applicant:

Notwithstanding the lack of security with Internet Communications, I hereby authorize the USPTO to communicate with me concerning any subject matter related to the instant application by email. I understand that a copy of such communications related to formal submissions will be made of record in the applications file.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, David R. Vincent can be reached at (571) 272-3080. Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks,

10/074,958

Art Unit: 2129

Washington, D. C. 20231;

Hand delivered to:

Receptionist,

Customer Service Window,

Randolph Building,

401 Dulany Street,

Alexandria, Virginia 22313,

(located on the first floor of the south side of the Randolph Building);

or faxed to:

(571) 273-8300 (for formal communications intended for entry.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll free).

seph P. Hirl

∕Primary Examiner

January 17, 2008

Page 4